

279-9541

6/3/2011

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U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs  
Registration Division (7505P)  
Ariel Rios Building  
1200 Pennsylvania Ave., NW  
Washington, D.C. 20460

EPA Reg. Number:  
279-9541

Date of Issuance:  
JUN - 3 2011

NOTICE OF PESTICIDE:

Registration  
 Reregistration  
(under FIFRA, as amended)

Term of Issuance: Unconditional

Name of Pesticide Product:  
F9001-2 0.45 G Herbicide on  
Fertilizer

Name and Address of Registrant (include ZIP Code):

FMC Corporation  
1735 Market Street  
Philadelphia, PA 19103

~~Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.~~

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act. Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:

1. Submit and/or cite all data required for registration/reregistration review of your product when the Agency requires all registrants of similar products to submit data; and submit acceptable responses required for reregistration of your products under FIFRA section 4.
2. Change the EPA Registration Number to: "279-9541".
3. Make the following label changes:
  - a. On page 1 of the labeling, clarify that not all sites are "turf sites"; so put a semicolon after "Roughs".
  - b. Under the "ingredient statement", split out each a.i./pound and wherever there is lb/ai in the label.
  - c. Revise the "Hazards to Humans and Domestic Animals" statement to read: "Harmful if swallowed. Causes moderate eye irritation. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Avoid contact with eyes, or clothing."

Signature of Approving Official:

Kathryn V. Montague  
Product Manager 23  
Herbicide Branch  
Registration Division (7505P)

Date:

JUN - 3 2011

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d. Under the "First Aid" section, move the "If Swallowed" statement to the first position, followed by the "If in Eyes" statement. In addition, the acute toxicity review has determined that dermal and inhalation statements are not required. You may elect to use Category 3 statements.

e. The label should contain a "Note to Physician". The following statements are suggested types of information that may be included, if applicable: - technical information on symptomatology; - use of supportive treatments to maintain life functions; - medicine that will counteract the specific physiological effects of the pesticides; - company telephone number to specific medical personnel who can provide specialized medical advice."

f. On page 3, remove "General" from the heading "General Information" and replace with "Product".

g. The rates for sulfentrazone have to comply with 0.375 lb sulfentrazone/A per year. The maximum product/year is 193.3 lb, based on percentage of sulfentrazone.

h. The 3<sup>rd</sup> footnote under Table 1 is not consistent with the rest of table or product formulation type. It also exceeds the maximum annual rate.

i. Remove "sedges" from preemergence section – cited product only allows postemergence.

j. On page 7, remove the "Method and Rate of Application for Additional Uses" section.

k. In Table 2, footnote #4, the annual maximum rate must be reiterated.

l. Remove all references to "Christmas tree farms". This is not an approved site for sulfentrazone.

m. Remove the "Method and Rate of Application for Additional Uses" section.

4. Submit the results of one year storage stability (830.6317) and corrosion characteristics (830.6320) studies within one year of the date of this Notice.

Submit one copy of the revised final printed label for the record.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

Enclosure

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# F9001-2 0.45 G Herbicide on Fertilizer

For Preemergence and early postemergence control of crabgrass, selected annual grasses, sedges and annual broadleaf weeds in Turf Sites - Residential and Institutional Lawns, Athletic Fields, Commercial Sod Farms, Golf Course Fairways and Roughs, Roadsides, Utility right-of-ways, Railways, Industrial areas and landscape ornamentals.

EPA Reg. No. 279-

EPA Est. No.

Active Ingredient:	By Wt.
Sulfentrazone:N-[2,4-dichloro-5-[4-(difluoromethyl)-4,5-dihydro-3-methyl-5-oxo-1H-1,2,4-triazol-1-yl]phenyl]methanesulfonamide	0.194%
Dithiopyr:	
3,5pyridinedicarbothioic acid,	
2-(difluoromethyl)-4-(2-methylpropyl)-	
6-(trifluoromethyl)-S,S-dimethyl ester	0.257%
Other Ingredients:	99.55%
	100.0%

F9001-2 0.45 G HERBICIDE ON FERTILIZER contains 0.0045 pounds of active ingredient per pound U. S. Patent No.

**ACCEPTED**  
**with COMMENTS**  
**In EPA Letter Dated:**

JUN - 3 2011  
Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the pesticide  
registered under EPA Reg. No.

279-9541

### Guaranteed Analysis XX-X-XX

Total Nitrogen (N)	XX.XX %
XX.XX% Urea Nitrogen	
Soluble Potash (K <sub>2</sub> O)	XX.XX %
Sulfur (S) Total	XX.XX %
X.XX % Free Sulfur (S)	
X.XX % Combined Sulfur (S)	
Iron (Fe) Total	X.XX %
X.XX % Soluble Iron (Fe)	
Derived From: Poly Coated Sulfur Coated Urea, Sulfate Of Potash, Iron Sucrate.	
Chlorine (Cl) Max.	X.XX %

**KEEP OUT OF REACH OF CHILDREN**

## CAUTION

See additional precautionary information contained inside label booklet.

FMC Corporation  
Agricultural Products Group  
1735 Market Street  
Philadelphia PA 19103

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<b>FIRST AID</b>	
<b>IF INHALED</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<b>IF ON SKIN OR CLOTHING</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>IF IN EYES</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>IF SWALLOWED</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Do not give any liquid to the person.</li> <li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>HOTLINE NUMBER</b>	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-331-3148 for emergency medical treatment information.	
For Information Regarding the Use of this Product Call 1-800-321-1FMC(1362)	

## PRECAUTIONARY STATEMENTS

### Hazards to Humans (and Domestic Animals)

#### CAUTION

Causes moderate eye irritation. Harmful if inhaled, swallowed, or absorbed through skin. Avoid breathing vapor or spray mist. Avoid contact with skin, eyes or clothing. Prolonged or frequently repeated skin contact while mixing or handling may cause allergic reactions in certain individuals.

#### Personal Protective Equipment (PPE)

Applicators and other handlers must wear long-sleeved shirt and long pants, waterproof gloves, and shoes plus socks.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

#### User Safety Recommendations:

- Users should remove clothing immediately if product gets inside. Then wash thoroughly and put on clean clothing.

### Environmental Hazards

This product is toxic to marine/estuarine invertebrates. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to terrestrial and aquatic plants in neighboring areas. Do not contaminate water when disposing of equipment wash waters or rinsate.

Groundwater advisory: Sulfentrazone is known to leach through soil into groundwater under certain conditions as a result of label use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination. Do not use on coarse soils classified as sand which have less than 1% organic matter.

Surface water advisory: Sulfentrazone can contaminate surface water through spray drift. Under some conditions, sulfentrazone may also have a high potential for runoff into surface water (primarily via dissolution in runoff water), for several to many months post-application. These include poorly draining or wet soils with readily visible slopes toward adjacent surface waters, frequently flooded areas, areas overlying extremely shallow groundwater, areas with in-field canals or ditches that drain to surface water, areas not separated from adjacent surface waters with vegetated filter strips, and areas over-lying tile drainage systems that drain to surface waters.

### DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

Do not apply this product through any type of irrigation system. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your state or tribe, consult the agency responsible for pesticide regulation.

#### Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. These requirements only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is: Coveralls over long-sleeved shirt and long pants, chemical-resistant gloves made of any waterproof material, and shoes plus socks.

#### Non-Agricultural Use Requirements

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Re-entry Statement: Do not allow people (other than applicator) or pets on treatment area during application.

#### STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

**Pesticide Storage:** Store product in original container only, away from other pesticides, fertilizer, food or feed. Store in a cool, dry place and avoid excess heat.

**Spill:** In case of spill, avoid contact, isolate area and keep out animals and unprotected persons. **Confine spills. Call FMC: (800) 331-3148.**

To confine spill: Cover to prevent dispersal. Place damaged package in a holding container. Identify contents.

**Pesticide Disposal:** If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional office for guidance.

#### Container Disposal:

**Nonrefillable container.** Do not reuse or refill this container. Then offer for recycling if available, or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

### GENERAL INFORMATION

#### Turf Use Instructions

F9001-2 0.45 G HERBICIDE ON FERTILIZER is a selective pre-emergence and post-emergence herbicide for control of crabgrass, annual grass and broadleaf weeds and sedges in turf sites including residential and institutional lawns, athletic fields, commercial sod farms, golf course fairways and roughs, roadsides, utility right-of-ways, railways and industrial areas.

F9001-2 0.45 G HERBICIDE ON FERTILIZER is a granular formulation containing 0.0045 lbs. of active ingredient (0.00194 lbs sulfentrazone and 0.00257 lbs dithiopyr) per one pound of product. The mode of action of F9001-2 0.45 G HERBICIDE ON FERTILIZER involves uptake by both weed roots and shoots of existing weeds and prevention of growth by newly emerged weed seedlings.

**SPECIFIC USE INSTRUCTIONS IN TURFGRASS**

**Established Turf**

This product may be used on seeded, sodded or sprigged turfgrasses that are well established. First application of this product can be made following the second mowing providing the grass has developed into a uniform stand with a good root system. Turf injury may result from application of this product on turf that is not well established or has been weakened by stresses such as unfavorable weather conditions, disease, chemical or mechanical influences.

When applied as directed under the conditions described, the following established grasses are tolerant to F9001-2 0.45 G HERBICIDE ON FERTILIZER at the recommended use rates in a range from 0.375 to 0.875 lb. ai/acre (221 to 514.5 lbs./acre or 5.07 to 11.8 lbs./1,000 sq. ft.). Do not exceed 0.90 lb. ai/acre (525 lbs./acre) per calendar year.

Table 1. Tolerant grasses.

Grass Type	Recommended Use Rates Do not exceed maximum use rates per turf species in a single application		
	Lb. ai. per acre	pounds per 1000 ft <sup>2</sup>	pounds per acre
<b>Cool Season Grasses</b>			
Bentgrass, creeping <sup>1</sup> Fescue, fine <sup>2</sup> ( <i>Festuca rubra</i> ) Ryegrass, perennial ( <i>Lolium perenne</i> )	0.375-0.875 lb. ai.	1.9 - 4.5 Lbs.	83.25 - 194.5 lbs.
Bluegrass, Kentucky ( <i>Poa pratensis</i> ) Fescue, tall <sup>2</sup> ( <i>Festuca arundinacea</i> )	0.375-0.875 lb. ai.	1.9 - 4.5 Lbs.	83.25 - 194.5 lbs.
<b>Warm Season Grasses</b>			
Bahiagrass ( <i>Paspalum notatum</i> ) Buffalograss ( <i>Buchloe dactyloides</i> ) Carpentergrass ( <i>Axonopus affinis</i> ) Centipedegrass ( <i>Eremochloa ophiuroides</i> ) Kikuyugrass ( <i>Pennisetum clandestinum</i> ) Seashore Paspalum ( <i>Paspalum vaginatum</i> ) Zoysiagrass ( <i>Zoysia japonica</i> )	0.375-0.875 lb. ai.	1.9 - 4.5 Lbs.	83.25 - 194.5 lbs.
Bermudagrass ( <i>Cynodon dactylon</i> ) & hybrids	0.375-0.875 lb. ai.	1.9 - 4.5 Lbs.	83.25 - 194.5 lbs.

<sup>1</sup> If bentgrass is mowed lower than 0.5 inches do not apply F9001-2 0.45 G HERBICIDE ON FERTILIZER. Do not use on the following cultivars or creeping bentgrass: Carmen, Cohansey, Seaside, and Washington. Colonial bentgrass is not tolerant to F9001-2 0.45 G HERBICIDE ON FERTILIZER.

<sup>2</sup> Use of this product on certain varieties of Chewing, Fine Fescue or Tall Fescue cultivars may result in undesirable injury. The following varieties of Fine fescue have show lack of tolerance to F9001-2 0.45 G HERBICIDE ON FERTILIZER: Atlanta, Banner, Beauty, Bilgart, CF-2, Enjoy, HF-93, Highlight, Ivalo, Jamestown, Koket, Majenta, Pennlawn, Tamara, Tatjana, Waldorf and Waldina.

F9001-2 0.45 G HERBICIDE ON FERTILIZER may be applied more than once per year if needed as long as total amount applied does not exceed the maximum application rate per turf type or 1.125 lbs. ai/acre (36 fl. oz./acre), whichever is lower.

- F9001-2 0.45 G Herbicide on Fertilizer application may cause temporary discoloration to exposed leaf surfaces on certain cultivars of zoysiagrass. Treated turfgrass will recover with new growth. Discolored leaf tissue will be removed with mowing. To reduce potential for discoloration, do not apply F9001-2 0.45 G HERBICIDE ON FERTILIZER on turfgrass that is weakened by weather, mechanical, chemical, disease or other related stress. Maintain proper cultural practices such as adequate moisture and fertility levels to promote healthy turf growth.
- Do not use on hybrid bermudagrass 328 (Tifgreen)
- F9001-2 0.45 G HERBICIDE ON FERTILIZER has demonstrated tolerance on both cool and warm season turfgrasses. However, not all varieties and or cultivars have been evaluated. Turfgrass managers desiring to treat newly released varieties should first apply F9001-2 0.45 G HERBICIDE ON FERTILIZER to a small area prior to treatment of larger areas.

**Weed Controlled with Pre emergence Application**

Table 2.

Common Name	Scientific Name
Barnyardgrass	( <i>Echinochloa crus-galli</i> )
Bluegrass annual <sup>1</sup>	( <i>Poa annua</i> )
Carpetweed	( <i>Mollugo verticillata</i> )
Carolina Geranium	<i>Geranium carolinianum</i>
Chickweed, common <sup>2</sup>	( <i>Stellaria media</i> )
Chickweed, mousear (from seed)	( <i>Cerastium vulgatum</i> )
Crabgrass (large, Smooth, Southern) <sup>3</sup>	( <i>Digitaria spp.</i> )
Cupgrass, Woolly	( <i>Eriochloa villosa</i> )
Dallisgrass	( <i>Paspalum dilatatum</i> )
Foxtails, Annual	( <i>Setaria spp.</i> )
Goosegrass <sup>4</sup>	( <i>Eleusine indica</i> )
Hairy Bittercress	<i>Cardamine hirsute</i>
Henbit <sup>2</sup>	( <i>Lamium amplexicaule</i> )
Knotweed, prostrate	( <i>Polygonum aviculare</i> )
Kochia	( <i>Kochia scoparia</i> )
Kyllinga, green	( <i>Kyllinga brevifolia</i> )
Kyllinga, false	( <i>Kyllinga gracillima</i> )
Lambsquarters, common	( <i>Chenopodium album</i> )
Lawn Burweed	( <i>Soliva pterosperma</i> )
Lespedeza, common	( <i>Lespedeza striata</i> )
Nutsedge, yellow	( <i>Cyperus esculentus</i> )
Panicum (Texas, Fall)	( <i>Panicum spp.</i> )
Pigweed, Redroot	( <i>Amaranthus retroflexus</i> )
Purslane, Common	( <i>Portulaca oleracea</i> )
Pusley, Florida	( <i>Richardia scabra L.</i> )
Sedge, globe	( <i>Cyperus globulosus</i> )
Sedge, cylindrical	( <i>Cyperus retrorsus</i> )
Sedge, Surinam	( <i>Cyperus surinamensis</i> )
Sedge, Texas	( <i>Cyperus polystachyos</i> )
Shephardspurse <sup>2</sup>	( <i>Capsella bursa-pastoris</i> )
Speedwell	( <i>Veronica spp.</i> )
Spurge, prostrate	( <i>Euphorbia humistrata</i> )
Woodsorrel, yellow (from Seed)	( <i>Oxalis stricta</i> )

1. *Poa annua* is a winter annual. Applications of F9001-2 0.45 G HERBICIDE ON FERTILIZER should be made in August or September to established, non overseeded turf before *Poa Annua* germinates. Consult local Cooperative Extension Service for more specific applications timings for your local area since August and September are approximate timings.
2. Apply F9001-2 0.45 G HERBICIDE ON FERTILIZER in late summer, fall or winter before weed germinates for control.
3. Crabgrass control in cool season grasses from fall application: Areas where the ground is subject to winter freezes, F9001-2 0.45 G HERBICIDE ON FERTILIZER may be applied in the fall at rates listed in Table 1 (125 -292 lbs. per acre) for cool season grasses when soil temperatures are below 50°F, but prior to the ground freezing. This will provide control of crabgrass the following spring.
4. In areas of extended growing season and heavy pressure weed control will be enhanced by second application of F9001-2 0.45 G HERBICIDE ON FERTILIZER 60-90 days after initial application

**Postemergence Control of Annual, Biennial & Perennial Broadleaf Weeds, Grasses and sedges**

F9001-2 0.45 G HERBICIDE ON FERTILIZER will control or suppress the weeds listed in Table 3 when applied shortly after weeds have emerged. Do not exceed the application rate specified for the turf species in Table 1.

**Weeds Controlled or Suppressed When Application Made Postemergence to Weeds**

Table 3

Common Name	Scientific Name	Controlled	Suppressed
Bittercress	( <i>Cardamine spp.</i> )		X
Black medic	( <i>Medicago lupulina</i> )		X
Buttercups	( <i>Ranunculus spp.</i> )		X
Carolina geranium	( <i>Geranium carolinianum</i> )	1	
Carpetweed	( <i>Mollugo verticillata</i> )		X
Chickweed, common	( <i>Stellaria media</i> )	1	
Chickweed, mousear	( <i>Cerastium vulgatum</i> )		X
Cinquefoil	( <i>Potentilla spp.</i> )		X
Clover	( <i>Trifolium spp.</i> )		X
Crabgrass (Large and Smooth)	( <i>Digitaria spp.</i> )	2	
Cudweed	( <i>Gnaphalium spp.</i> )		X
Dandelion	( <i>Taraxacum officinale</i> )		X
Dock, Curly	( <i>Rumex crispus</i> )		X
Evening primrose	( <i>Oenothera biennis</i> )		X
Fiddleneck	( <i>Amsinckia spp.</i> )		X
Filaree	( <i>Erodium spp.</i> )		X

Goldenrod	( <i>Solidago</i> spp.)	1	
Goosegrass	( <i>Elyusine indica</i> )	2	
Ground ivy	( <i>Glechoma hederacea</i> )		X
Henbit	( <i>Lamium amplexicaule</i> )		X
Knotweed, prostrate	( <i>Polygonum aviculare</i> )		X
Kochia	( <i>Kochia scoparia</i> )	1	
Lambsquarters, common	( <i>Chenopodium album</i> )		X
Lawn burweed	( <i>Soliva pterosperma</i> )		X
Lespedeza, common	( <i>Lespedeza striata</i> )		X
Mallow, common	( <i>Malva neglecta</i> )		X
Nutsedge, Yellow	( <i>Cyperus esculentus</i> )	1	
Parsley pier	( <i>Alchemilla arvensis</i> )	1	
Pigweed, Redroot	( <i>Amaranthus retroflexus</i> )	1	
Pigweed, Tumble	( <i>Amaranthus albus</i> )	1	
Pineapple weed	( <i>Matricaria matricarioides</i> )		X
Plantain, buckhorn	( <i>Plantago lanceolata</i> )	1	
Puncture weed	( <i>Tribulus terrestris</i> )		X
Purslane, common	( <i>Portulaca oleracea</i> )		X
Pusley, Florida	( <i>Richardia scabra</i> )	1	
Redweed	( <i>Melochia corchoriolia</i> )		X
Rocket, London	( <i>Sisymbrium irio</i> )		X
Smartweed, Pennsylvania	( <i>Polygonum pennsylvanicum</i> )	1	
Sorrel, Red	( <i>Rumex acetosella</i> )		X
Speedwell	( <i>Veronica</i> spp.)	1	
Spurge, (annuals)	( <i>Euphorbia</i> spp.)	1	
Spurge, prostrate	( <i>Euphorbia humistrata</i> )	1	
Spurge, spotted	( <i>Euphorbia maculata</i> )	1	
Star of Bethlehem	( <i>Ornithogalum umbellatum</i> )	1	
Velvetleaf	( <i>Abutilon theophrasti</i> )		X
Violet, wild	( <i>Viola pratensis</i> )		X
Wild garlic	( <i>Allium vineale</i> )		X
Wild onion	( <i>Allium canadense</i> )		X
Woodsorrel, creeping	( <i>Oxalis corniculata</i> )		X
Woodsorrel, yellow	( <i>Oxalis stricta</i> )	1	

- Weeds are suppressed at lower label rates (100 lbs/acre). For optimum control apply rates of at least 100 lbs per acre in a single application. Do not exceed the application rate specified for the turf species in Table 1.
- F9001-2 0.45 G HERBICIDE ON FERTILIZER controls crabgrass and goosegrass when applied postemergent to newly emerged weeds from the 1-4 leaf to the 2-4 tillering stage has been initiated.

#### Early Postemergence Control

Application of F9001-2 0.45 G HERBICIDE ON FERTILIZER provides early postemergence control of crabgrass and goosegrass when applied by the 2-4 tillering stage of development. Applications should be made as soon as undesirable grass is observed for best results.

#### Application to Reseeded, Overseeded or Sprigged areas

Reseeding, overseeding or sprigging of treated areas within three to four (3-4) months after application of this product could inhibit the establishment of desirable grasses. However, perennial ryegrass may be overseeded into bermudagrass 8 weeks after application of F9001-2 0.45 G HERBICIDE ON FERTILIZER if slight injury to the ryegrass is acceptable.

Best results are obtained for reseeding or overseeding when mechanical or power seeding equipment (slit seeders) are used to give good seed to soil contact and proper soil cultivation, irrigation and fertilization practices are followed.

#### Sod Production

It is recommended that sod be established for at least six (6) months before an application of F9001-2 0.45 G HERBICIDE ON FERTILIZER. Do not apply this product within three (3) months of harvest.

#### Other Use Precautions

Do not apply to golf course putting greens or tees.

Do not use on turgrasses other than those listed on this label.

Do not graze or feed livestock, forage cut from areas treated with F9001-2 0.45 G HERBICIDE ON FERTILIZER.

Do not apply to areas where dichondra, colonial bentgrass, velvet bentgrass or annual bluegrass (*Poa annua*) are desirable species.

Do not apply to creeping bentgrass if mowing height is less than 0.5 inch.

Do not apply to newly set sod until the sod has rooted and exposed edges have grown in.

Do not mulch vegetables or fruit trees with clippings from turf treated with F9001-2 0.45 G HERBICIDE ON FERTILIZER.

Do not apply with adjuvants or surfactants.

Temporary turfgrass discoloration has been observed when Primo has been either tank-mixed or applied within 7 days of a F9001-2 0.45 G HERBICIDE ON FERTILIZER application. It is recommended that Primo applications be made 7 days prior to, or after F9001-2 0.45 G HERBICIDE ON FERTILIZER application to reduce risk of turfgrass discoloration.

**ADDITIONAL USE INSTRUCTIONS**

**Container, Field grown Ornamental plantings including Christmas Tree farms**

**Application Information**

Apply as directed application toward the base of the plant. Do not spray over- the-top. Most effective when applied to soil free of clods, weeds, debris such as leaves or mulch. Most effective when the product is activated in the soil before weed seeds germinate if applied as pre-emergence herbicide and is activated when the treated area receives at least 0.25 inches of irrigation or rainfall.

**Use Precautions**

1. Direct application of F9001-2 0.45 G HERBICIDE ON FERTILIZER to actively growing foliage can cause unacceptable injury to desirable plants. See Table 1 for a list of compatible plants. To reduce injury apply F9001-2 0.45 G HERBICIDE ON FERTILIZER as a site directed to the soil at the base of the plant. Avoid application directly to plant foliage where possible. However if foliage contacted during application apply overhead irrigation to the foliage to wash F9001-2 0.45 G HERBICIDE ON FERTILIZER from plant surfaces onto soil.

2. Do not apply to areas where ornamental bulbs or dormant non-woody perennials are present. F9001-2 0.45 G HERBICIDE ON FERTILIZER is soil active and may damage these plants upon emergence.

**Tolerant Ornamental Species**

The species listed below in Table 1 are tolerant to F9001-2 0.45 G HERBICIDE ON FERTILIZER.

When plants are under stress (such as heat, drought, or frost damage), some cultivars of listed plants may be sensitive to F9001-2 0.45 G HERBICIDE ON FERTILIZER.

**Table 1. Tolerant Ornamental Species –**

Common name	Scientific name
Abelia	Abelia X grandiflora
Arborvitae	Thuja spp.
Azalea and Rhododendron	Rhododendron sp.
Birch, River	Betula nigra
Boxwood Species	Buxus spp.
Bridal - Wreath	Spirea spp.
Butterfly Bush	Buddleia davidii
Camellia	Camellia spp.
Cedar, Red	Juniperus virginiana
Crape Myrtle	Lagerstroemia indica
Creeping Juniper	Juniperus horizontalis
Cypress, Bald	Taxodium distichum
Cypress, Leyland	Cupressocyparis leylandii
Dogwood	Cornus florida
Douglas Fir	Pseudotsuga menziesii
Dwarf Yaupon Holly	Ilex vomitoria 'Nana'
Fir Species( Fraser, Balsam, etc)	Abies fraseri
Forsythia	Forsythia X intermedia
Hawthorne	Crataegus spp.
Holly	Ilex spp.
Holly, Meserve	Ilex x meserveae
Juniper	Juniperus spp.
Laurel, mountain	Kalmia latifolia
Ligustrum, Japanese	Ligustrum japonicum
Maple	Acer spp.
Norway Spruce	Abies picea
Oak	Quercus spp.
Pine	Pinus, Spp.
Privet	Ligustrum japonicum
Pyracantha	Pyracantha spp.
Rose	Rosa sp.
Rhododendron	Rhododendron spp.
Southern Magnolia	Magnolia grandiflora
Spruce	Picea, spp.
Yew	Taxus sp.

**Application Sites and Instructions**

Site	Application Instructions
Newly-Transplanted Container or Field Nursery Stock	1. Apply after new transplant material has formed roots and is well established 2. Do not apply until soil has settled around transplants. Direct application toward base of plant to avoid terminal and bud area of plant.
Established Container, Field Nursery Stock, or Landscape Plants	1. Apply at any time as a directed spray toward the base of the plant.

**How Much F9001-2 0.45 G HERBICIDE ON FERTILIZER to Apply**

Amount to Apply (Broadcast)*	Comments
83 - 195 lbs/A 1.9 - 4.5 lbs /1000sqft	1. Higher rates needed for sedges and perennial weeds. 2. Multiple applications may be made if needed as long as total amount applied in one year does not exceed 300 lbs/A 3. Direct application toward base of plants

\*Do not use on food producing trees, vines, or plants

**Preemergence control of annual broadleaf weeds and Sedges**

F9001-2 0.45 G HERBICIDE ON FERTILIZER will control or suppress the weeds listed in Table 2. When applied prior to weed germination, apply F9001-2 0.45 G HERBICIDE ON FERTILIZER at a rate of 83 to 195 lbs/acre. To broaden the weed spectrum and increase effectiveness for certain weeds listed in Table 2, F9001-2 0.45 G HERBICIDE ON FERTILIZER may be used in conjunction with other EPA registered pre-emergence herbicides. Follow all label restrictions, use directions and precautionary statements before using other products with F9001-2 0.45 G HERBICIDE ON FERTILIZER. Control of emerged annual grass weeds may be improved by combining F9001-2 0.45 G HERBICIDE ON FERTILIZER with other post emergence herbicides.

**POSTEMERGENCE CONTROL OF ANNUAL, BIENNIAL & PERENNIAL BROADLEAF WEEDS**

F9001-2 0.45 G HERBICIDE ON FERTILIZER will control or suppress the weeds listed in Table 2 when applied alone shortly after weeds have emerged. Apply F9001-2 0.45 G HERBICIDE ON FERTILIZER herbicide at rates from 83 to 195 lbs/acre (1.97 to 4.5 lbs./1,000 sq. ft.). To broaden the weed spectrum and increase effectiveness for certain weeds listed in Table 2, F9001-2 0.45 G HERBICIDE ON FERTILIZER may be used in conjunction with other EPA registered postemergence herbicides. Refer to the Follow all label restrictions, use directions and precautionary statements before using other products with F9001-2 0.45 G HERBICIDE ON FERTILIZER. Control of emerged annual grass weeds may be improved by combining F9001-2 0.45 G HERBICIDE ON FERTILIZER with other registered post emergence herbicides.

**Railroad Rights-of-Way**

Controls many weeds and maintains bare ground on railroad rights-of-way, including railroad yards, railroad crossings and railroad bridge abutments.

**Highway, Roadside, Pipeline and Utility Rights-of-Way**

Controls many weeds and maintains bare ground in highway, roadside, pipeline and utility rights-of-way. Such areas would include, but are not limited to, guardrails, road shoulders, electric utility substations, pipeline pumping stations, around electric transmission towers, around distribution line poles plus other areas where complete vegetation control is desired.

**Industrial Areas, Fence Rows and Other Non-crop Sites**

Controls weeds and maintains bare ground in industrial areas including production facilities, tank farms, storage areas, parking areas, lumber yards, airports, military installations, along fence rows, and in similar non-crop sites where complete vegetation control is needed.

**METHOD AND RATE OF APPLICATION FOR ADDITIONAL USES**

For residual control of germinating weeds in non-crop land, apply as a broadcast treatment using 83 to 195 pounds per acre by ground.

DO NOT apply F9001-2 0.45 G HERBICIDE ON FERTILIZER to soils classified as sand with less than 1% Organic Matter.

**Timing**

For best results, apply F9001-2 0.45 G HERBICIDE ON FERTILIZER alone or in combination with other herbicides for residual control of weeds in late summer, fall, or early spring to insure adequate moisture for soil activation.

**Weeds Controlled**

F9001-2 0.45 G HERBICIDE ON FERTILIZER when applied postemergence at 83 to 195 lbs per acre, will control the following weeds in non-cropland areas (Table 5). Use the higher labeled rates to extend length of control. Use the higher rates on sites with fine soil textures and on sites with more than 2% organic matter.

**Weeds Controlled from Preemergence Application to Bare Ground Prior to Weed Seed germination**

Table 5.

Common Name	Scientific Name
Barnyardgrass	( <i>Echinochloa crus-galli</i> )
Bluegrass annual	( <i>Poa annua</i> )
Carpetweed	( <i>Mollugo verticillata</i> )
Carolina Geranium	<i>Geranium carolinianum</i>
Chickweed, common	( <i>Stellaria media</i> )
Chickweed, mouseear (from seed)	( <i>Cerastium vulgatum</i> )
Crabgrass (large, Smooth, Southern)	( <i>Digitaria spp.</i> )
Crowfootgrass	( <i>Dactyloctenium aegyptium.</i> )
Cupgrass, Woolly	( <i>Eriochloa villosa</i> )
Foxtails, Annual	( <i>Setaria spp.</i> )
Goosegrass	( <i>Eleusine indica</i> )
Hairy Bittercress	<i>Cardamine hirsuta</i>
Henbit 2	( <i>Lamium amplexicaule</i> )
Itchgrass	( <i>Rottboellia exaltata</i> )
Knotweed, prostrate	( <i>Polygonum aviculare</i> )
Kochia	( <i>Kochia scoparia</i> )
Kyllinga, green	( <i>Kyllinga brevifolia</i> )
Kyllinga, false green	
Lambsquarters, common	( <i>Chenopodium album</i> )
Lovegrass	( <i>Eragrostis spp.</i> )
Nutsedge, yellow	( <i>Cyperus esculentus</i> )
Nutsedge, purple	( <i>Cyperus rotundus</i> )
Panicum (Texas, Fall)	( <i>Panicum spp.</i> )
Pigweed, Redroot	( <i>Amaranthus retroflexus</i> )
Purslane, Common	( <i>Portulaca oleracea</i> )
Pusley, Florida	( <i>Richardia scabra L.</i> )
Sedge, globe	( <i>Cyperus globulosus</i> )
Sedge, cylindrical	( <i>Cyperus retrorsus</i> )
Sedge, Sunnam	( <i>Cyperus surinamensis</i> )
Sedge, Texas	( <i>Cyperus polystachyos</i> )
Shephardspurse	( <i>Capsella bursa-pastoris</i> )
Signalgrass, broadleaf	( <i>Brachiaria playphyla</i> )
Speedwell	( <i>Veronica spp.</i> )
Sprangletop	( <i>Leptochola spp.</i> )
Spurge, prostrate	( <i>Euphorbia humistrata</i> )
Witchgrass	( <i>Panicum capillare L.</i> )
Woodsorrel, yellow (from Seed)	( <i>Oxalis stricta</i> )

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